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PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

1. (Currently Amended) An apparatus for controlling the operation of a quality

feedback channel in a wireless communication system, comprising:

a computer-readable memory element; and

a processing element configured to execute a set of computer-executable instructions

stored on the computer-readable memory element, the set of said instructions for:

determining a channel quality value associated with a transmission channel;

determining a condition of the transmission channel;

if the transmission channel condition is favorable, then transmitting the channel quality

value over one slot of the channel quality feedback channel, wherein the condition of the

transmission channel is determined to be favorable by comparing energy levels of symbols

received on the transmission channel to a predetermined threshold amount;

if the channel condition is not favorable, then transmitting the channel quality value over

a plurality of slots of the channel quality feedback channel; and

determining a transmission rate of the channel quality value over the feedback channel

based on the condition of the transmission channel.

2. (Currently Amended) The apparatus of Claim 1, wherein the condition of the

transmission channel is based upon a velocity estimate, wherein the velocity estimate is

determined by a Doppler frequency estimation method.

3. (Original) The apparatus of Claim 1, wherein the condition of the transmission

channel is based upon a power level estimate.

4. (Original) The apparatus of Claim 1, wherein the condition of the transmission

channel is based upon whether a fast fade occurs in the transmission channel.

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5. (Currently Amended) A method for improving the reception of a channel quality

value, comprising:

determining whether the condition of a transmission channel is favorable;

if the condition of the transmission channel is favorable, then transmitting the channel

quality value over one slot of a feedback channel, wherein the condition of the transmission

channel is determined to be favorable by comparing energy levels of symbols received on the

transmission channel to a predetermined threshold amount;

if the condition of the transmission channel is unfavorable, then transmitting the channel

quality value over more than one slot of the feedback channel; and

determining a transmission rate of the channel quality value over the feedback channel

based on the condition of the transmission channel.

6. (Original) The method of Claim 5, wherein transmitting the channel quality value

over more than one slot of the feedback channel further comprises:

repeating the channel quality value over a frame of the feedback channel.

7. (Original) The method of Claim 5, wherein the channel condition is unfavorable

if a first station and a second station travel at a high velocity in relation to each other, wherein

the first station originates the feedback channel and the second station originates the

transmission channel.

8. (Currently Amended) A method for improving the reception of a channel quality

value at a base station, comprising:

determining whether the condition of a feedback channel from a remote station is

favorable, wherein the condition of the feedback channel is determined to be favorable by

comparing energy levels of symbols received on the feedback channel to a predetermined

threshold amount;

if the condition of the channel is unfavorable, then transmitting a control signal to the

remote station, wherein the control signal triggers a reduced rate mode for transmitting the

channel quality value over a feedback channel from the remote station;

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if the condition of the channel is favorable, then allowing the remote station to control the

transmission of the channel quality value over the feedback channel; and

determining a transmission rate of the channel quality value over the feedback channel

based on the condition of the transmission channel.

9. (Currently Amended) An apparatus for improving the reception of a channel

quality value at a base station, comprising:

means for determining whether the condition of a feedback channel from a remote station

is favorable, wherein the condition of the feedback channel is determined to be favorable by

comparing energy levels of symbols received on the feedback channel to a predetermined

threshold amount;

means for transmitting a control signal to the remote station if the condition of the

channel is unfavorable, wherein the control signal triggers a reduced rate mode for transmitting

the channel quality value over a feedback channel from the remote station; and if the condition

of the channel is favorable, then allowing the remote station to control the transmission of the

channel quality value over the feedback channel; and

means for determining a transmission rate of the channel quality value over the feedback

channel based on the condition of the transmission channel.

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